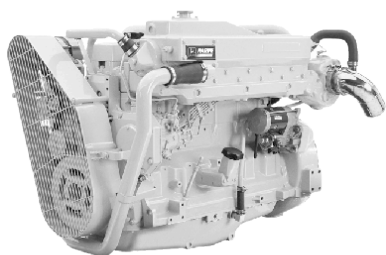


# PowerTech

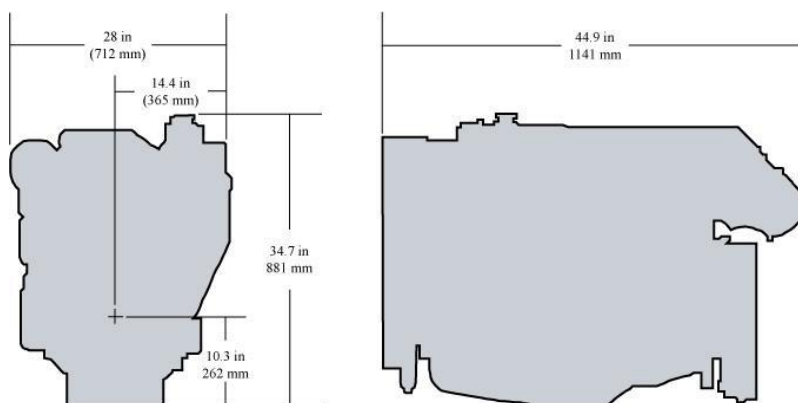
## 6068TFM Diesel Engine

Propulsion Engine Specifications



6068TFM shown

### Dimensions



### Certifications

IMO MARPOL Annex VI  
American Bureau of Shipping  
China Classification Society  
Det Norske Veritas  
Registro Italiano Navale

### General engine data

Model	6068TFM50	Length - mm (in)	1141 (44.9)
Number of cylinders	6	Width - mm (in)	712 (28.0)
Displacement - L (cu in)	6.8 (415)	Weight, dry-- kg (lb)	730 (1609)
Bore and Stroke-- mm (in)	106 x 127 (4.17 x 5.00)	Maximum installed angle	Front Up – degrees 9 Front Down – degrees 0
Compression Ratio	17.0:1		
Engine Type	In-line, 4- Cycle		
Aspiration	Turbocharged		

### Features and benefits

#### Watercooled Turbocharger and Exhaust Manifold

- Cooler and quieter environment for vessel and crew
- Reduced external connections eliminates hoses and fittings that can leak or break

#### Replaceable Wet-type Cylinder Liners

- Excellent heat dissipation
- Hardened and precision machined for long life
- Rebuild to original specifications

#### Corrosion Resistant Components

- Provides engine protection from the effects of seawater

#### Either-side Service

- Oil fill and dipstick combinations
- Remote oil filter for easier service access
- Application and service flexibility to provide installation convenience plus fast and easy maintenance

#### Heat exchanger or Keel Cooled

- High-capacity heat exchanger designed for reliable operation in adverse conditions
- Integrated expansion tank, heat exchanger and exhaust manifold reduce chances of leaks
- Keel cooler or heat exchanger options provide application flexibility

#### High Torque and Low Rated RPM

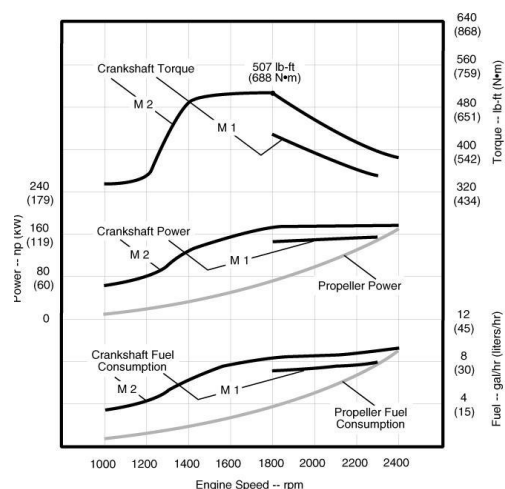
- Enables the engine to turn larger propellers at lower speed for best efficiency
- Excellent vessel control and maneuvering
- Lower rated rpm limits vibration and noise for better crew comfort

#### Fuel System

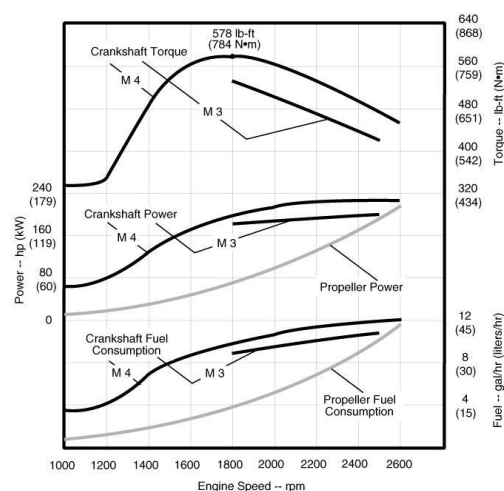
- Proven and reliable Mechanical Governor

## Performance curve

**M1, M2 PERFORMANCE CURVE**



**M3, M4 PERFORMANCE CURVE**



Performance data	M2	M4
Rated Power - kW (hp)	130.5 (175)	168 (225)
Rated Speed - rpm	2400	2600
Low Idle Speed - rpm	650	650
Peak Torque - Nm (ft-lb)	684 (504)	780 (575)
Peak Torque Speed - rpm	1800	1800
Fuel Consumption - L/h (gal/hr)	36.3 (9.6)	46.8 (12.4)

M rating	M2	M4
Typical load factor	65 %	40 %
Typical annual usage (hr)	3000	800
Typical full-power operation (hr)	16 of each 24	1 of each 12

**John Deere Power Systems**  
3801 W. Ridgeway Ave.  
PO Box 5100  
Waterloo, IA 50704-5100  
Phone: 1-800-533-6446  
Fax: 319.292.5075

**John Deere Power Systems**  
**Usine de Saran**  
La Foulonnerie - B.P. 11.13  
45401 Fleury les Aubrais Cedex  
France  
Phone: 33.2.38.82.61.19  
Fax: 33.2.38.82.60.00

*All values at rated speed and power with standard options unless otherwise noted.  
Specifications and design subject to change without notice.*